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Activity 2 - Table Structure and Validation Practice Questions

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The Doctor's Surgery

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Task Scenario

- You have been asked to create a database for the East Berkshire Doctors Surgery.
- Currently all records are stored on a spreadsheet.
- The surgery would like to be able to store and report on surgery visits.
- Currently staff have two types of speciality – GP and Nurse.
- The surgery would like to have more specialised doctors and nurses in the future, but each member of staff will continue to have a single speciality.

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Task Scenario

- The database will record information about:
- Staff
- Patients
- The appointments on a given day.

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Task Scenario

Each doctor must see at least one patient in a day and a patient cannot see more than one doctor in a day.

An Appointment can be a single or a double session identified as 1 or 2.

There are two types of patient: Private and NHS. Privately funded patients are sent a bill of £50 for each visit to the Doctor.

A doctor cannot see more than 2 privately funded patients in a single day.

When an appointment is made the staff and the patient are selected.

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The Data.

Appointment ID	Staff ID	Patient ID	Staff Specialty	Appointment Date	Appointment Type	House Number	Specialty ID	Postcode	Patient Type	Staff Surname	Patient Surname
1	1	27	GP	27/07/2020	1	5	1	RG4 8NP	Private	Smith	Iqbal

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Table Structure – tblPatient

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Table Structure – tblPatient

- You will also need information specific to each Seat
- PatientID as a Primary Key
- Surname and PatientType as short text
- HouseNameOrNumber and Postcode as short text

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Table Structure - tblPatient

Field names and datatypes are given on the next slide

Do not create an AutoNumbered Primary Key at this stage as you are given Primary Key values

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tblPatient

Primary Key

tblPatient

Field Name	Data Type
PatientID	Number
Surname	Short Text
HouseNameOrNumber	Short Text
Postcode	Short Text
PatientType	Short Text

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Validation

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Validation – tblPatient

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A patient record will not save if the surname is missing – presence check

- Use an ‘Is Not Null’ validation check
- Put it on the Surname column
- In the Validation Rule property field
- You can then add a suitable error message in the Validation text property field

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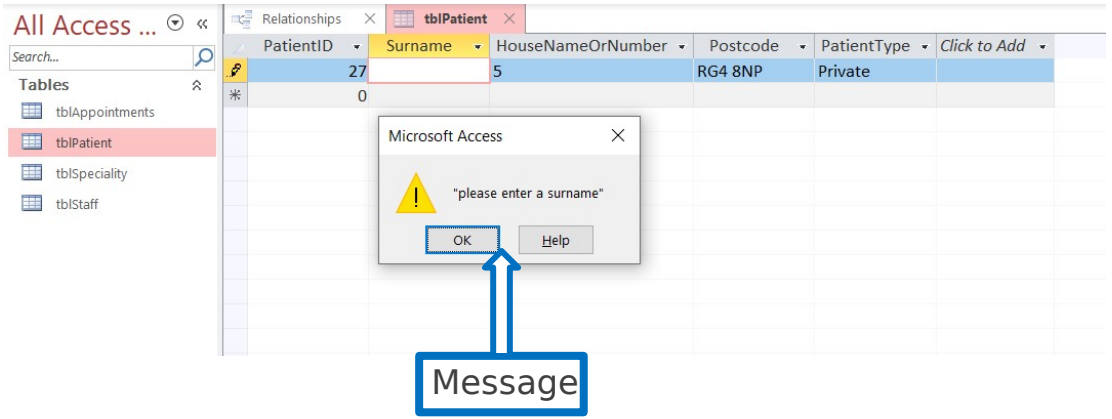
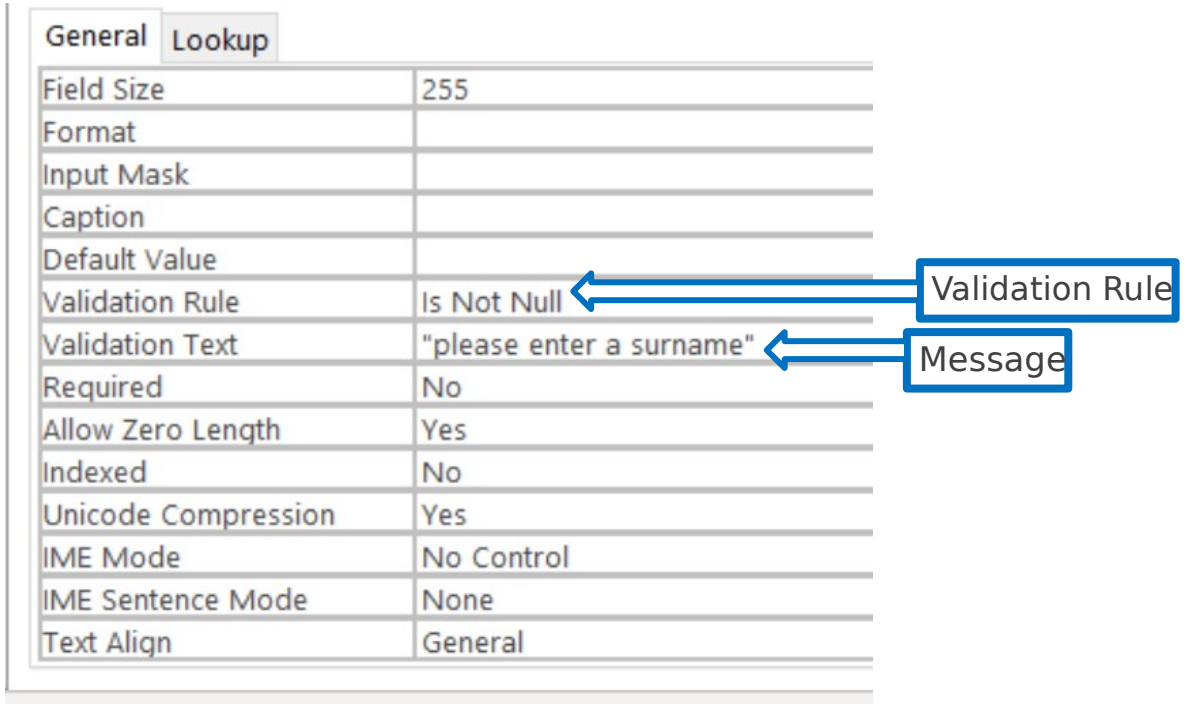
A patient record will not save if the surname is missing – presence check

ACCESS SCREENSHOT



VALIDATION CODE



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A patient record will not save if the house number is missing – presence check

- Use an ‘Is Not Null’ validation check
- Put it on the HouseNumber column
- In the Validation Rule property field
- You can then add a suitable error message in the Validation text property field

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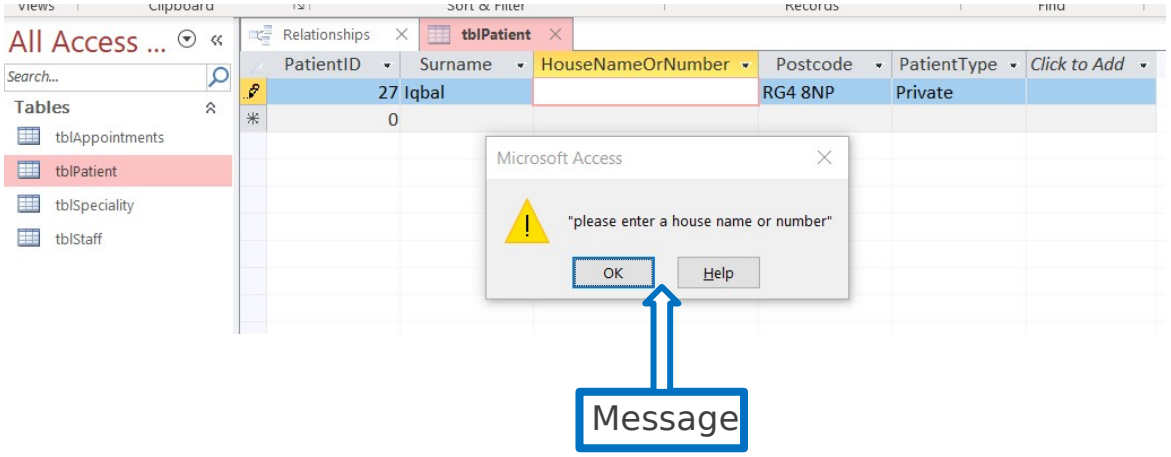
A patient record will not save if the house number is missing – presence check

ACCESS SCREENSHOT



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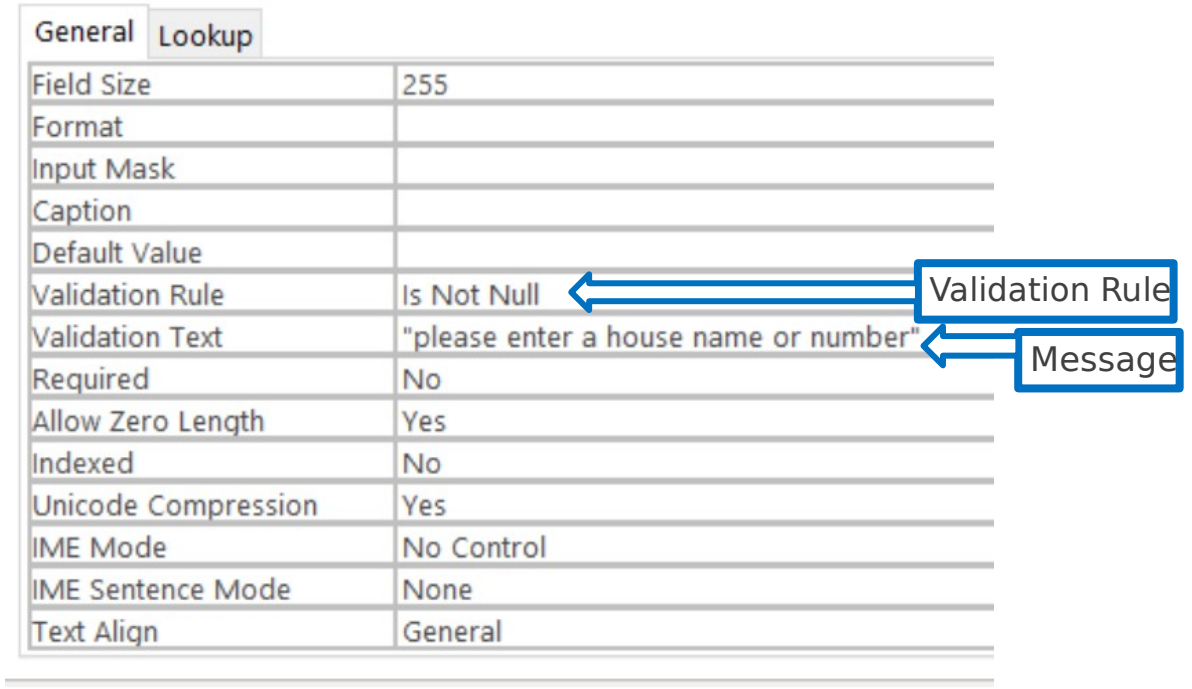

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A patient record will not save if the postcode is missing – presence check

- Use an ‘Is Not Null’ validation check
- Put it on the Postcode column
- In the Validation Rule property field
- You can then add a suitable error message in the Validation text property field

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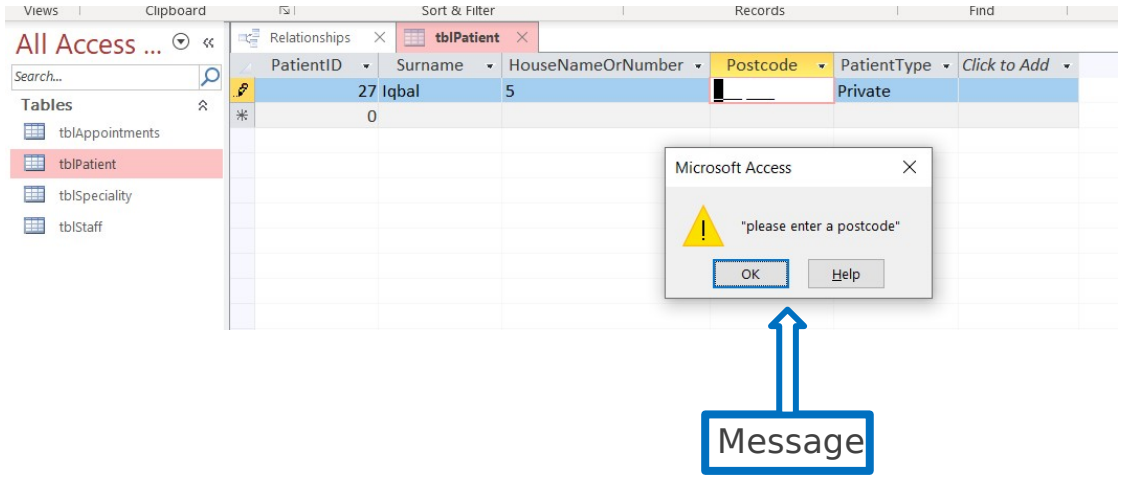
A patient record will not save if the postcode is missing – presence check

ACCESS SCREENSHOT



VALIDATION CODE

General | Lookup

Field Size	255
Format	
Input Mask	>LL0\ 0LL;0;_
Caption	
Default Value	
Validation Rule	Is Not Null
Validation Text	"please enter a postcode"
Required	No
Allow Zero Length	Yes
Indexed	Yes (Duplicates OK)
Unicode Compression	Yes
IME Mode	No Control
IME Sentence Mode	None
Text Align	General

Validation Rule

Message

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A patient record will not save if the postcode is not in the correct format – length & format check

- Use an Input Mask on the postcode column
- You will need to look at the postcodes given – they will all be the same
- Pick the code that matches: >LL0 \0LL; 0
- This forces a postcode of 2 letters and a number, followed by a number and 2 letters e.g. RG4 1PQ

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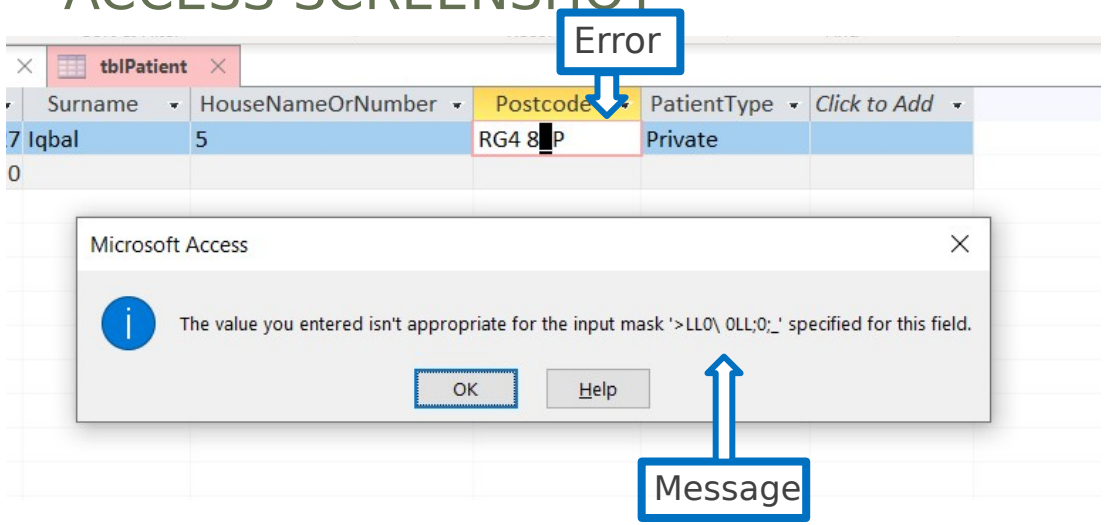
A patient record will not save if the postcode is not in the correct format – length & format check

ACCESS SCREENSHOT



VALIDATION CODE

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